DPM 293

U.S. DEPARTMENT OF LABOR Occupational Safety and Health Administration

Form Approved OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

Industrial Hygiene

Required under USDL Safety and Health Regulations for Ship Repairing, Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

AUG 01 1989

SECT	TON 100 to the control of the contro
MANUFACTURER'S NAME	EMERGENCY TELEPHONE NO. (213) 861-6324
Sherwin Incorporated ADDRESS (Number, Street, City, State, and ZIP Code)	
5530 Borwick Avenue, South Gate CHEMICAL NAME AND SYNONYMS N/A	TRADE NAME AND SYNONYMS Black Oxide No. 1
CHEMICAL FAMILY Primarily Fe203	FORMULA Proprietary

PAINTS, PRESERVATIVES, & SOLVENTS	*	TLV (Units)	ALLOYS AND METALLIC COATINGS	*	TLV (Units
PIGMENTS Iron Oxide 1-3%		N/A	BASE METAL		7:
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS Aliphatic Solvent 97	-99	86	FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
			DUIDS, SOLIDS, OR GASES	%	TLV (Units)
<u> Fluorocerbon propellant - ev</u>	oid dro	open f gen chl le.)	porocarbon or hydrocarbon propell lames and welding arcs, as therm oride and phosgens. Hydrocarbon	al	•

	SECT	TION III -	PHYSICAL DATA	
BOILING POINT (°F.)	356-510 D.	F.	SPECIFIC GRAVITY (H2O=1)	0.8086
VAPOR PRESSURE (mm Hg.)	77 D. F. 1		PERCENT, VOLATILE BY VOLUME (%)	99%
VAPOR DENSITY (AIR=1)	<u> </u>	6.2	EVAPORATION RATE	0.1
SOLUBILITY IN WATER		Nil		
APPEARANCE AND ODOR	Water	Color		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA					
FLASH POINT (Method used) TCC 154 D. F.	FLAMMABLE LIMITS	1.0%	Uel 7.0%		
EXTINGUISHING MEDIA CO2 & Dry Chemical			·		
SPECIAL FIRE FIGHTING PROCEDURES: in case of fire involving this mater	ial, do not enter the	area withou	t proper		
equipment, including self contained br	eathing apparatus.				
unusual fire and explosion Hazards Store apray can package out of direct		120 F.			
Do not heat, burn or puncture spray ca	n at anytime.				

(Continued on reverse side)

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SECTION V - HEALTH HAZARD DATA
THRESHOLD LIMIT VALUE 375 ppm (determined on basis of related hydrocarbons)
May cause eye irritation: may cause skin irritation on prolonged or repeated skin
contact. May be harmful or fatal if swallowed.
EMERGENCY AND FIRST AID PROCEDURES
For eye contact, flush eyes with fresh water for at least 15 minutes; if irritati persists, get medical attention. For extensive skin contact, wash skin with soap an
water. Remove grossly contaminated clothing and wash before reuse. If swallowed,
do not induce vomiting- call a physician.
SECTION VI - REACTIVITY DATA
STABILITY UNSTABLE CONDITIONS TO AVOID
STABLE X
INCOMPATABILITY (Materials to groud) May react with strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS Normal combustion forms carbon dioxide and water vapor incomplete combustion can form carbon monoxide.
HAZARDOUS MAY OCCUR CONDITIONS TO AVOID
POLYMERIZATION WILL NOT OCCUR
SECTION VII - SPILL OR LEAK PROCEDURES
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Extinguish all sources of ignition in vicinity of spill or released vapors. Clean
up spills as soon as possible, observing precautions in Section IX.
WASTE DISPOSAL METHOD
Absorb large spills with clay, diatomaceous earth.
SECTION VIII - SPECIAL PROTECTION INFORMATION
RESPIRATORY PROTECTION (Specify type)
VENTILATION LOCAL EXHAUST SPECIAL
MECHANICAL (General)
Neoprene or protective gloves for repeated protection If possibility of splashing,
OTHER PROTECTIVE EQUIPMENT Wear chemical-safety goggles.
SECTION IX - SPECIAL PRECAUTIONS
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING. Avoid contact with eyes and skin. Avoid breathing high concentrations of vapors or
mists. Store in cool, well ventilated area away from sources of ignition.
OTHER PRECAUTIONS
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